

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 19, 2003, 15:19:15 ; Search time 42 Seconds
(without alignments)
762.603 Million cell updates/sec

Title: US-09-494-297-2
Perfect score: 3945
Sequence: 1 MKTRFPRKLTMTLNTQRYLS.....IAGISLGIMGITHIRKHD 757

Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database : Issued Patents-AA:*
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/PCRTUS.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	194.5	4.9	2439	3	US-09-074-658-11
2	181	4.6	728	4	US-09-107-532A-4518
3	178	4.5	898	2	US-08-867-941-11
4	176	4.5	905	3	US-09-074-658-70
5	161	4.1	1416	4	US-09-071-035-404
6	161	4.1	1448	4	US-09-071-035-402
7	154.5	3.9	2432	3	US-09-074-658-15
8	152	3.9	1849	4	US-08-851-567B-49
9	152	3.9	2516	4	US-08-851-567B-47
10	150	3.8	1161	4	US-09-327-536-2
11	149	3.8	2032	4	US-09-071-035-458
12	149	3.8	2032	4	US-09-071-035-462
13	149	3.8	2032	4	US-09-071-035-466
14	148	3.8	1183	4	US-08-447-031A-2
15	145	3.7	1112	2	US-08-714-402-2
16	142.5	3.6	627	1	US-08-703-947-2
17	142	3.6	930	4	US-09-134-001C-5314
18	139	3.5	1231	4	US-09-071-035-420
19	139	3.5	1265	4	US-09-071-035-418
20	139	3.5	2366	1	US-08-480-604A-10
21	139	3.5	2366	2	US-08-405-496A-10
22	139	3.5	2366	4	US-08-915-136-10
23	139	3.5	2366	4	US-08-957-310-10
24	139	3.5	2366	4	US-10-011-366-10
25	138.5	3.5	625	4	US-09-692-064-2
26	138	3.5	894	2	US-08-867-941-15
27	137.5	3.5	2522	3	US-09-251-645-13

28	134	3.4	1861	2	US-08-790-912-4	Sequence 4, Appl1
29	133	3.4	1095	4	US-09-107-532A-3855	Sequence 3855, Ap
30	133	3.4	2314	4	US-09-268-347-49	Sequence 49, Appl
31	131.5	3.3	1297	4	US-09-107-532A-4552	Sequence 4552, Ap
32	131	3.3	660	4	US-09-107-532A-6715	Sequence 6715, Ap
33	129	3.3	1221	4	US-09-107-532A-3959	Sequence 3959, Ap
34	128.5	3.3	952	4	US-09-107-532A-4706	Sequence 4706, Ap
35	128	3.2	621	4	US-09-071-035-468	Sequence 468, Ap
36	128	3.2	1375	3	US-09-210-361-4	Sequence 4, Appl1
37	128	3.2	1375	4	US-09-740-274-4	Sequence 4, Appl1
38	128	3.2	1394	4	US-08-296-791-2	Sequence 2, Appl1
39	128	3.2	1394	5	PCR-US95-10661A-2	Sequence 2, Appl1
40	126	3.2	413	4	US-09-107-532A-6433	Sequence 6433, Ap
41	126	3.2	10182	4	US-09-134-001C-3159	Sequence 3159, Ap
42	125.5	3.2	691	3	US-08-946-475-2	Sequence 2, Appl1
43	125.5	3.2	691	3	US-09-340-479-2	Sequence 2, Appl1
44	125.5	3.2	711	3	US-08-946-475-9	Sequence 9, Appl1
45	125.5	3.2	711	3	US-09-340-479-9	Sequence 9, Appl1

ALIGNMENTS

```
RESULT 1
US-09-074-658-11
; Sequence 11, Application US/09074658
; Patent No. 6184371
; GENERAL INFORMATION:
; APPLICANT: Loosmore, Sheena M
; APPLICANT: Run-Pan Du
; APPLICANT: Ouljun Wang
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: LACTOFERRIN RECEPTOR GENES OF MORAXELLA
; NUMBER OF SEQUENCES: 78
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/074,658
; FILING DATE: 08-MAY-1998
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-795
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2439 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-074-658-11

Query Match 4.9% Score 194.5; DB 3: Length 2439;
Best Local Similarity 18.6% Pred No 2.3e-06;
Matches 180; Conservative 128; Mismatches 328; Indels 331; Gaps 44;
OY 4 TRFPRKLTMTQRYLSKSRFTVLIVGELMTFALVTSWVGAKTVGLVSSTPNAIN 63
DB 79 TTDPFGDNNQILQ-----AQKTAAGGFVW-----GKTRDTSFKK-D 115
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QY 64 PDSSSE--YRMYG--YESYVRGHP-----YKQFRVADHLKRVNL 98
D 116 PDVSNLDVQOMOGKLYGIDAHPRDGICTGKNLQPIITANDIKRLYKPKPALSDHLS 175
QY 99 EGSRSYGVYCNLKKAPPLGSDSSVKK--WKKHDGISTFEDYAMSP-----RIT 147
D 176 ERNR-FDPKRLMTIKYVGNLTTPSKNNTYINHQADNKNKPNVPEYENIRGYLELQ 234
QY 148 GDELNOK-----LRAVMYNGHPQANNGIMEGLEPLN----- 178
D 235 GSSLTQKNADTPNDKDIKPKMPLTFHG--ENASQLPSAGKKNYGNMLYLSDVKKRP 292
QY 179 AIRVTOEAWYSDNADISNPDSFKRESSNLVTSQSL----- 219
D 293 ALSASDVRGVYILNASGKN-----EGDVSAHIYILNGFQYKHPATYQVDEDTN 343
QY 220 -MQALKQLIDPNLATMKQVPPDF-----QLSTFSEBDK--GKRYKNGYONLLSGG 269
D 344 SLTGKLSYDNPQOTAGKYIKSQFTTKRVNMTDYYQIDAKINGRFRGTAKSLVNN 403
QY 270 L-----VPTKPRTPGDPMPNPQOTSVLIRKAYIDYSKLEGATLQTLGDNVNS 321
D 404 TETAPFIKELESKKANNNP--NPN-----SPTLEGGEGYSGDEL-- 442
QY 322 FQARVSSND-----IGERIELSDGYTTLTSLNSPAGYSIAEPIETKRVAGKYTLIDG 375
D 443 --AGKFLSNDNASVYVGGKRDKTDKPVATKTYFSAGFE--KPSTSFVNETIGRIINS 498
QY 376 KOIENPKELVE-----YYSVEAYNDF-----EEFSVLTON-----YAKFTYAK 415
D 499 KKLMDAVNEKIDNGDITSDERYDEFPWGEKKAETKRVSSIQAVPAYEGQHDKFE-- 556
QY 416 NKNGSSQVYCFNADLSPDSEDEGKMTPTDFTTGEV----- 453
D 557 --NGNYDILASSVYDKLAPADAVKANSIKEKYPMALINKDNQVATYALQEAKNKPYTA 614
QY 454 ----KYTHIA-GRDLF-----KTYVRPRTDPTFLKHKKVYI----- 486
D 615 IRAKSYOHISFGETLYNDANOTPTRSYVOGGRADITSTLPKAGKFTYNGLMAGYLIOKK 674
QY 487 EKGYREKGOALEYSG-----LTETQLRAATQOLAIYTT-----DSLELDKDKLKDVGHF 535
D 675 DKGYSNNEETIKKGHODYLTED-----FTPRDDDDDLTASDSDODDAHGD 722
QY 536 GDMNDSTLAVAKILVEYADSNPPQLTDLDFEIPNNKXYSILGTQWHPDLVDIIMED 595
D 723 DDL-----IASDSDODDADGDDSDDL--GDCADDAAGAKYVHAAGN-----IRPEF 767
QY 596 KKEVIYV--THNLTL-----RRTVYGLADRTKDFHEIELKNNKQELL 637
D 768 ENNYLPIINEPTHEKTFALDKKNKAKFPVDFTNSLTGKLNDERGDIYFDI--KNGKIDGT 825
QY 638 SQVYKDKTLEFKDGKATINLKHGESLTJQGLPEGSYLVKELDSGYKVKNSOVA- 696
D 826 GFTAKADVPYREVVG--NNOGG-----GELYNIKDIDVYGFEGTNGEELAG 871
QY 697 -----NATVSKTG-----ITSDETAFENNKPPVPTGVOKINGTL--ALTVIA 739
D 872 QLOYDKDGGINDTAERKGAVFAGVAKKMSKITKTOTPSVHTMTTHLNLAIKRALGVA 931
QY 740 GISLGIW 746
D 932 VLPLSVW 938

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RESULT 2
 US-09-107-532A-4518
 ; Sequence 4518, Application us/09107532A
 ; Patent No. 6583275
 ; GENERAL INFORMATION:

APPLICANT: Lynn A Doucette-Stamm and David Bush
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO

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; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: us/09/107,532A
; FILING DATE: 30-Jun-1998
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
;
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
;
; INFORMATION FOR SEQ ID NO: 4518:
;
; SEQUENCE CHARACTERISTICS:
; LENGTH: 728 amino acids
; TYPE: amino acid
; MOLECULE TYPE: linear
; HYPOTHEICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
;
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (B) LOCATION 1...728
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; SEQUENCE DESCRIPTION: SEQ ID NO: 4518:
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; US-09-107-532A-4518
;
; Query Match
; Best Local Similarity 20.7%; Pred. No. 4.2e-06;
; Matches 147; Conservative 102; Mismatches 235; Indels 226; Gaps 37;
;
; 4.6%; Score 181; DB 4; Length 728;
;
; 96 VNIEGS--RSYQVYCNLKKAPPLGSDSSVKKYKKNHDSIKFEFY-----A 141
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 175 ISIEGNTIKSNQIY-----LGRDQEIQIHYVR--IQTENEDFHPFWYQMNGRTT 223
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 142 MSPRITGDELNOKLRAVMYNGHPQANNGIMEGLEPLNATIRVDEAWYVSDNAPISNPDE 201
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 224 FQPNIDTNEIAE-----FGIPSAKAPVSLHI--KKLMEEDNNLADRPQ 267
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 202 -SPKRESSESLVTSQSLSLKQALQOLIDPNLAT-----KKPKQVPPDFQ--Lst 248
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 268 VTFEIQRE-----HTTNAAMKNGYIRIRAKKTITWNERADIDKLSAHGSEYQELSL 323
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 249 FESEDKGDKYKNQYONLSGLVPTKPPPG-----DPPMPNPQOTSV--LIRKXA 299
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 324 PNYNNOGQARS--YQTI-----KELPYVGYDSQIDAMTWKNTKQFPLNLKITKNS 374
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 300 IGDYSKLEGATLQTLGDNVNSFOA-RVSSNDIGERIEL-SDGYTTLTFLNSPAGYSTA 357
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 375 TGE--KDLIGAVFKLTGDSIDTLTDHGDYSLPENVKLQKEMTYLTLETAKPEGHGS 432
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 358 EPTTFYEAGKYVTI-IDGK-----QIENPNKELVEPYVSEAYNDFEFSVLIT 405
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 433 KTTTWEIKIASDQTVITIDGTYTTSDDTTLTIENFVEV--PVAIRKTAAGSTDEINL 490
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
; 406 QNAYAKFYAKNKNSSQVYCFNADLSPDSE--DGKMTPTDFTTGEVYKTHIAGRD 462

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Db      491 KGAFFSLOKKEANGIYO-----PIDSQTNEGLASFDLFTGKRYVETACPA 539
Qy      463 LFKTYVPRDPTDFELKHKKVYEKREKQALIEYSGLETQIARAATOLAIYFTDSA 522
Db      540 GY-----DTSPCNVEFOIDKY-----SKIL-YTGKNTMENTNNWTILHQRLAEF 583
Qy      523 ELDDKDKLDYHGFQGMNSTALAVAKILVEYADDSNPOLTDLDFIPNNKKYQSLIGTQW 582
Db      584 DLTYHKKED-----NGOITLGAKEFRLO-----GPEM-DLE----- 612
Qy      583 HPEDLVIDIIRMEKKKEVIPVTHNLTKRTVTGLADPRDKDFEFIEELKNNKQELLSQYV 642
Db      613 SPKD-----GQETDTELE----- 626
Qy      643 TDKTNLEFRDKKATINLKHGE-SLTLOGLPEGYSL--VKETDSEGYKVANSQEVANA 698
Db      627 -----NLKPGTYTLTETFTPEGYQGLKEPVTIVIHEDSGSIQVDDGD--HE 669
Qy      699 TVSKTGITSDE-TLAFENN-KEPVVPTGVODKINGLYALIVYAGISLGIV 746
Db      670 SVLSPGAKNNQISLDITNOAKVPLPETGGIGRLGIY--LVGMIGCAFISIW 717

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RESULT 3

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US-08-867-941-11
; Sequence 11, Application US/08867941
; Patent No. 5977337
; GENERAL INFORMATION:
; APPLICANT: Loommore, Sheena M
; APPLICANT: Du, Run-Pan
; APPLICANT: Wang, Qun-Jun
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: LACTOFERRIN RECEPTOR GENES OF MORAXELLA
; NUMBER OF SEQUENCES: 67
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Slim & McBurney
; STREET: 6th floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/867,941
; FILING DATE: 03-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-681 MIS:jb
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 898 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-867-941-11

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Query Match

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Best Local Similarity 4.5%; Score 178; DB 2; Length 898;
Matches 171; Conservative 118; Mismatches 305; Indels 344; Gaps 42;

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Qy      4 TRFNKLTTLTQRLSKSRKRFVTLVGVLMIFALVTSMGAKTVGLVSSPNNIN 63
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Db      79 TTDPMGDNNOQLTQ-----AQKTAAGFFVM-----GKIRDTSPKN-D 115
Qy      64 PDSSE--YRWG--YESYVRGH-----YYQFRAVDLRVL 98
Db      116 PDYSNDLVQOMQGLYVDAIDAHRPDGIQTKNLRQPIYANDIKPLIFNKKFALSLHDS 175
Qy      99 EGSRSYQVYCFNLKAPFLGSDSSVKK--WKKKHGISTKPEDYMSF-----KIT 147
Db      176 ERHR-FDPKLTNTIKVYGNLTTPSKNNYINHOQADNNKNNKFPDVENIRGYLELO 234
Qy      148 GDELNOK-----LRAVMNGHONANGIMEGLEPLN----- 178
Db      235 GSSLQGNKADNPNDKDRIPKMPILFYIG--EMASSQLPSACKFNYTGNWILSDYKRRP 292
Qy      179 AIRVTQEAUVWYSDNAPISNPDESFRKRESNVLSTSQLSL----- 219
Db      293 ALSASDHRVGYLYNASKSN-----EGDVVSAHAIIYINGFQYKHTPATYQVDPDTN 343
Qy      220 -MRQALQOLIDPNLATKPKQVPDF-----QLSIFESDK--GDKYNNQYONLLSG 269
Db      344 SLTGKLSYDNPNOQTAQGYIKSQFTTKKVNEDVYQIDAKINGNRPVGTASLVNEN 403
Qy      270 L-----VPTKPTPGDPMPMPNOPTTSVLRKVAIGDYSKLLEGATLQLTGDNNYS 321
Db      404 TETAPFIKELFSKKNPNP--NPN-----SDTLEGGFYGESGDEL-- 442
Qy      322 FOARVFSSND-----IGERLESDGYTTLLELNSPAGYSIAEPIITEFVEAGKYTTIDG 375
Db      443 --AGKFLSNDNASYVVFEGKRDTKPVATKYVFSAGFE--KPSTSVDMETIGRIINS 498
Qy      376 KOIENPKIEYE--PYSVEAYNDF-----EESVLTQN-----YAKFYAK 415
Db      499 KLANDAVNEKIDNGDIPTSDEKYDEFPMGEKKAETTKVSSSTQAVPAYFCQDHKEFY-- 556
Qy      416 NKNSSQVYVCFNADLKSPDSEDGKTPTDFTTGEV----- 453
Db      557 --NGNYDLSASSVDKLA PADAVKANQSIKKEYPATILKNQVTAIYLOEAKDKPYTA 614
Qy      454 ---KYTHIA-GRDLF-----KYVVKPRDDPTFLKHKKVY----- 486
Db      615 IRAKSYOHISFGETLYNDANOPTPRSYFVGGRADTSTLPKAGKFTYNGIMAGYLOKK 674
Qy      487 EGYREKQALIEYSG-----LTETQRLAATQALAIYFT-----DSALDKDKLDYGF 535
Db      675 DKGISNNEETIKKGHQYLLTED-----FTPEDDDDLTASDSQDDAHGD 722
Qy      536 GDMNDSTLAVAKILVEYADDSNPOLTDLDFIPNNKKYQSLIGTQWHPEDLVDIRMED 595
Db      723 DDL-----IASDDSQDDADQDDSDDL--GDGADDAAGKVYHAQN---IRREF 767
Qy      596 KKEVIVP--THNLTTL-----RKTYTGLAGDRTKDFHFEIELKNNKQELL 637
Db      768 ENKYLPINEPHEKTFALDGKNNKAFDVPDFTNSLTGLNBERGIVDI--KNGKIDGT 825
Qy      638 SQYVTKDTNLEFKQKATINLKHGESLTLOGLPEGYSLVKETDSEGYKVANSQEVANA 696
Db      826 GFTAKADVPNTRREEVG--NNQG-----GFLYINIKDIDVKQGFGTNGEELAG 871
Qy      697 -----NATVSKTG 704
Db      872 QLOYDKGDGINDTAEKAG 889

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RESULT 4

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US-09-074-658-70
; Sequence 70, Application US/09074658
; Patent No. 6184371
; GENERAL INFORMATION:
; APPLICANT: Loommore, Sheena M
; APPLICANT: Du, Run-Pan
; APPLICANT: Qun-Jun Wang
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H

```

TITLE OF INVENTION: LACTOFERRIN RECEPTOR GENES OF MORAXELLA
NUMBER OF SEQUENCES: 78
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sim & Mcburney
STREET: 6th Floor, 330 University Avenue
City: Toronto
STATE: Ontario
COUNTRY: Canada
ZIP: M5G 1R7
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/074,658
FILING DATE: 08-MAY-1998
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Stewart, Michael I
REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 1038-795
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 595-1155
TELEFAX: (416) 595-1163
INFORMATION FOR SEQ ID NO: 70:
SEQUENCE CHARACTERISTICS:
LENGTH: 905 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-074-658-70

Query Match 4.5%: Score 176; DB 3; Length 905;
Best Local Similarity 20.6%: Pred. No. 1.5e-05;
Matches 164; Conservative 102; Mismatches 264; Indels 266; Gaps 40;

QY 84 YKQFVRAHDLRVNLGSSRSYOVYCFNLKKA-----PPLGSSSVKK-----WYKKHDI 133
DB 165 YFDFPKISDL--HLENSE-----HVFDKANNIKIYGYGLSSPANNPTMYNQOQNI 218
QY 134 STR--FEDYA-----MSPRIT-----GELNOKLAWVINC-----HPQANGIMEGL 174
DB 219 KNRKPGDDYINIRGYEELRELNLKKGADNOSDKRAIIFTPPTLFYHGENSTHLP-- 276
QY 175 EPLNAIRVTOEAVVYSDNAP-----ISNPE-----SPKRSESNLVSTQSLSL----- 219
DB 277 ---KAGFYEGMWLYITDYKKRPFLDTDKYGTFTNSYRKSVEGLVSAHIYLSFK 333
QY 220 -----MROALKOLIDPNLATKMKQVDPDF-----QLSIFESDK-- 254
DB 334 YKHTPATYSVDFQNTLKGKLSYDNNKQTADGRYIRSOFDIDKKVNEADVYEIDKIN 393
QY 255 GDYXNKGYQLNLGG--VPRKPTPGDPPMPRPQOTTSVLIRKVAIGDYSKL 306
DB 394 GNFETGTAKSLIDNTNTAPFVKELFSKKANPNP--DPN-----SDT 434
QY 307 LEGATLQLDGDNVNSFOARVSSNDI-----GERIELSDGYTTLLELNSPAGYSAEP 359
DB 435 LEGGFYGESDEL-----AGKFLSNDNATFYVFGKRRKKTTEPAATKTVYS--TGFE--KP 487
QY 360 IFEKVEAGKYVTTIDGK---QIENPNKEIYEYSVYEAINDF-----EEFSLTT 405
DB 488 STFGVGEIEIGSLIDGGLNDEVNNOIETETVYSNKEIYENYNGRNKQFTKINSVQ 547
QY 406 QNTA-----KFTY-----AK--NKNGSSOVYTCENADLKSPPDSEGGCTMPDFT 449
DB 548 KNPAYFGQHDKFFNGNYTDLSSAKKLGVSODTSTNKSILAKYPPA-----RVSTDNKY 603
QY 450 T-----GEVYTHIAGRDLKFTYVKKPPDTPDFTFLK----- 480
DB 604 TKIVLOAKDKPYTAIHAQSYDHSIFGEVLYINDNKNKPNTRSYFVQGGQADVSTOLPSACK 663

QY 481 -----HIKVIKGYREKGOAIEYSGLTETQLRAATOLAIYFT----- 519
DB 664 FTYNGLWAGYLTQCKDGSKDEDTIKOKLKD-----YILTQFIPQDDDDDD 712
QY 520 DSAELDKDKLKD--YHGGDMNDSITLAVAKLIVEAODSNRPOLTDDEFIPNNKKQSLL 578
DB 713 DSLTASDDSDDDNTHGDSDL-----TASDSDDDDTDGDSDSDL--GGADDDAA 761
QY 579 GTOWHPEDLDIIRMEDKKEVIVP---THNLTL-----RKVTYGLAGDRT 620
DB 762 GKYYHAGN-----IRPEFENKYLPINEPTHEKRTALDCKNKAQFDVNFDTNLSGLKNDER 817
QY 621 KDEHFEIELKNNQELLISQVTKDKTNLEFRKDGKATINLKHGSLTQLGLPEGYSLVKE 660
DB 818 GDIVFDI--KNGKIDGTGFTAKADVPRYREVG-----NNOGG-----GFLYNIKD 861
QY 681 TDSEGYVKVNSOEVA 696
DB 862 IDVKGREFGTNGEELA 877

RESULT 5

US-09-071-035-404
Sequence 404, Application US/09071035
Patent No. 6448043
GENERAL INFORMATION:
APPLICANT: Gil H. Choi
TITLE OF INVENTION: Enterococcus faecalis polynucleotides and polypeptides
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4MB storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,035
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: A. Anders Brookes
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PB369P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 404:
SEQUENCE CHARACTERISTICS:
LENGTH: 1416 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-071-035-404

Query Match 4.1%: Score 161; DB 4; Length 1416;

Best Local Similarity 21.1%: Pred. No. 0.00052;
Matches 159; Conservative 104; Mismatches 326; Indels 166; Gaps 40;

QY 39 ALVTSWYAGTAVGVLES---STPNAINPOSSEYRWYGVSVRGHPYKQGRVAVHDLR 95
DB 484 SLSTPYVIGPKALQVLSDQYIEPISYVNP--LNFETMAGNTDQ-----NGAYSSR 531
QY 96 --VNLGSSRSYOVYCFNLKKAFP-----LGSDDSSVKKWYKKHDIISTKFEDYAMSPRITGD 149

Db 532 TTYSVMGSKREPIONLEIKVHPNYLSLRATKEIFYK---LGT---DYTVPTSDGS 584
QY 150 ELNOKLRAVYNGHPQANANGIMEGL-----PLNAIVTOEAVYVYDNPAPISNPDSFK 204
Db 585 VIKFTPTITNEIQIPGFENVVPSLPKDSIPVDITITMSAEGLTPTVDTVT---NSK 641
QY 205 RESESNLVSTQSLSLMQALQOLIDPMLATKMPKQVDDPOLSTFESEDKGDKYKNGYON 264
Db 642 RGSERTLOSSKNQGLVARNRDSFDSLVRKIPAGA--DVLFDIYDVSN--DQVDSIYPQ 697
QY 265 LLSGLVPTKPPRGDPPMP--PMQPTTSVLI-----RKYATGDYSKL---LEGATIQ 313
Db 698 YMDRGQYFDKPMPTNSGYPITITDEINTNSTYTFPGTKNKYII--EKKANGMWIDVPTLY 756
QY 314 LTG-----DNVNSFOARVSSNDIGERIELSDGTYYLTLENSPAGYSIAEPTTFKYEAG 367
Db 757 ITGTAKEPQSNNGSASVSQN---EALDLSAT-----QANPPLKNVTKT 801
QY 368 KVTY-IIDGK--QIENPNKEIVEPYSEAVYNDPEFSVLTQNYAKFYAKNKGSSQVY 424
Db 802 TVTTKNIDNKTHRKVKNPTIELTPKGTNAQIDLSITV-----KGVEDA 846
QY 425 YCFNADLSPDSEDGKTMPTDFTTGE---VKYTHIAGRDLFKYTKPRDTPDFTLKH 481
Db 847 Y-----SLEKTINGAKVIFKDYTLTENITIEYVNSANAGQIYTTETIDSETLNMOSA 899
QY 482 IKKVI-----EKGYREKGOAIEYSGLTETQLRAATQAIYFTD---SAEL 524
Db 900 SKKKVTTAPITLAKSEGDAGIYVLAATATFTYHNVEDENQAIKAVSELDINVTHTATEF 959
QY 525 DKDKLDYHGRGDM--NSTLAVAKILVEYADSNPQLT-----DLDFITP----- 569
Db 960 TTDEKGOYSPDAIMTGYTLKVTNVPOEYSVDEE--YLTGKAIRLVKGDQNLKIPLRKTI 1017
QY 570 NNNKYYQ-----SLIGTOMHPEDLVDIIRMEDKK--EVIPTVHNLTFLKRTVGLAGDRKDF 623
Db 1018 DHSRLQYKDSITIVYGDSSMKPEE--NFVSATDKTQODVPE-----KITVSGOVYNKXAGV 1070
QY 624 HFEIELKNNKQELLSQVTKDTKTNLEFRKGATINLKHGESLTLOGLEPGYSIYLVKETS 683
Db 1071 YPIIYSDEGKEETIYVTKPQSKLEVKD--TTIYV--GDSWK---PE--DNFVSATDK 1120
QY 684 EGYKV---KVNSEVANATVSKTITSDETLPAPEN 715
Db 1121 TGQDVPEKIDVOGTVN--VDKIG---DYELIVKN 1150

RESULT 6
US-09-071-035-402
; Sequence 402, Application US/09071035
; Patent No. 6448043
; GENERAL INFORMATION:
; APPLICANT: Gil H. Choi
; TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides
; NUMBER OF SEQUENCES: 496
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 Inch, 1.4MB storage
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; FILING DATE:
; APPLICATION NUMBER: US/09/071.035
; CLASSIFICATION:
; PRIOR APPLICATION DATA:

APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: A. Anders Brooks
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PB369P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 402:
SEQUENCE CHARACTERISTICS:
LENGTH: 1448 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-071-035-402

Query Match 4.1%; Score 161; DB 4; Length 1448;
Best Local Similarity 21.1%; Pred. No. 0.00054;
Matches 159; Conservative 104; Mismatches 326; Indels 166; Gaps 40;

QY 39 ALVTSMGAKTVEGLVES---STPNAINPDSSSEYRWGYESYRGHPYKQFRVADLR 95
Db 511 SLSTPVIQPNKAIQVLSDQYIEPISVNP--LNAETANGNDYQ-----NGATSSR 558
QY 96 --VNLEGSRSYQVCFNLKAP---LGSDSYKMYKKKHGISTNFEYDAMSPTTGD 149
Db 559 TTYSVMGSKREPIONLEIKVHPNYLSLRATKEIFYK---LGT---DYTVPTSDGS 611
QY 150 ELNOKLRAVYNGHPQANANGIMEGL-----PLNAIVTOEAVYVYDNPAPISNPDSFK 204
Db 612 VIKFTPTITNEIQIPGFENVVPSLPKDSIPVDITITMSAEGLTPTVDTVT---NSK 668
QY 205 RESESNLVSTQSLSLMQALQOLIDPMLATKMPKQVDDPOLSTFESEDKGDKYKNGYON 264
Db 669 RGSERTLOSSKNQGLVARNRDSFDSLVRKIPAGA--DVLFDIYDVSN--DQVDSIYPQ 724
QY 265 LLSGLVPTKPPRGDPPMP--PMQPTTSVLI-----RKYATGDYSKL---LEGATIQ 313
Db 725 YMDRGQYFDKPMPTNSGYPITITDEINTNSTYTFPGTKNKYII--EKKANGMWIDVPTLY 783
QY 314 LTG-----DNVNSFOARVSSNDIGERIELSDGTYYLTLENSPAGYSIAEPTTFKYEAG 367
Db 784 ITGTAKEPQSNNGSASVSQN---EALDLSAT-----QANPPLKNVTKT 828
QY 368 KVTY-IIDGK--QIENPNKEIVEPYSEAVYNDPEFSVLTQNYAKFYAKNKGSSQVY 424
Db 829 TVTTKNIDNKTHRKVKNPTIELTPKGTNAQIDLSITV-----KGVEDA 873
QY 425 YCFNADLSPDSEDGKTMPTDFTTGE---VKYTHIAGRDLFKYTKPRDTPDFTLKH 481
Db 874 Y-----SLEKTINGAKVIFKDYTLTENITIEYVNSANAGQIYTTETIDSETLNMOSA 926
QY 482 IKKVI-----EKGYREKGOAIEYSGLTETQLRAATQAIYFTD---SAEL 524
Db 927 SKKKVTTAPITLAKSEGDAGIYVLAATATFTYHNVEDENQAIKAVSELDINVTHTATEF 986
QY 525 DKDKLDYHGRGDM--NSTLAVAKILVEYADSNPQLT-----DLDFITP----- 569
Db 987 TTDEKGOYSPDAIMTGYTLKVTNVPOEYSVDEE--YLTGKAIRLVKGDQNLKIPLRKTI 1044
QY 570 NNNKYYQ-----SLIGTOMHPEDLVDIIRMEDKK--EVIPTVHNLTFLKRTVGLAGDRKDF 623
Db 1045 DHSRLQYKDSITIVYGDSSMKPEE--NFVSATDKTQODVPE-----KITVSGOVYNKXAGV 1097
QY 624 HFEIELKNNKQELLSQVTKDTKTNLEFRKGATINLKHGESLTLOGLEPGYSIYLVKETS 683
Db 1098 YPIIYSDEGKEETIYVTKPQSKLEVKD--TTIYV--GDSWK---PE--DNFVSATDK 1147
QY 684 EGYKV---KVNSEVANATVSKTITSDETLPAPEN 715
Db 1148 TGQDVPEKIDVOGTVN--VDKIG---DYELIVKN 1177

RESULT 7

US-09-074-658-15

Sequence 15, Application US/09074658

Patent No. 6184371

GENERAL INFORMATION:

APPLICANT: Loosmore, Sheena M

APPLICANT: Run-Pan Du

APPLICANT: Quijun Wang

APPLICANT: Yang, Yan-Ping

APPLICANT: Klein, Michel H

TITLE OF INVENTION: LACTOPERRIN RECEPTOR GENES OF MORAXELLA

NUMBER OF SEQUENCES: 78

CORRESPONDENCE ADDRESS:

ADDRESSEE: Sim & McBurney

STREET: 6th floor, 330 University Avenue

CITY: Toronto

STATE: Ontario

COUNTRY: Canada

ZIP: M5G 1R7

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible

SOFTWARE: PC-DOS/MS-DOS

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/074,658

FILING DATE: 08-MAY-1998

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Stewart, Michael I

REGISTRATION NUMBER: 24,973

REFERENCE/DOCKET NUMBER: 1038-795

TELECOMMUNICATION INFORMATION:

TELEPHONE: (416) 595-1155

TELEFAX: (416) 595-1163

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 2432 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

US-09-074-658-15

Query Match 3.9%; Score 154.5; DB 3; Length 2432;

Best local Similarity 19.6%; Pred. No. 0.0041;

Matches 169; Conservative 101; Mismatches 306; Indels 285; Gaps 41;

84 YKQFVAVHDLRYNLEGSRSYOVYCFNLKKAEPFG--SDSSVKKWYKKHDGISTKEEDYA 141

161 YENKFPALDHLHDSERHR-FDPQKINTIKYVGNTLTPSNNTNHNHQAADNKKNNKP 219

142 MSP-----RTNGDELNOK-----LRVAVNGHONANGIMEGIEPLN 178

220 VDEYENIRRGVYELQSSSLTKNADNQNODRIPKMPILFYHG--ENASSQPSAGKFN 277

179 -----AIRVTOEAVWYYSUNAPISNPDESFEKRESESNLSTQSLSMPQA 223

278 YTGNNMLYSDVKRRPALSASDERVGYVLNASKAN-----EDDVVSAHITLYNGQ 328

224 LKQLIDPNLATKMPKQVPPDF-----QLSFESEDKGDKYKNG-----261

329 YKH-----TPATYQVDFDTNSLTKLSYDNPNO--QNNKGEYLKSOFTTKVNETD 379

262 -YQ-----NLSG--GLVPTKPPTPG-----DPPMPNPQNPOTSVLIRKAYAGDS 304

380 VYQIDAKKINGNRPVGAASLVNEKIQDTAFIKELFSKKANPNPNPN-----S 427

305 KLEGGATLQTDGDNVNSFOARVFSSNDI-----GERIELSDGTTLTFLNLSPAGYSIA 357

428 DPLEGGFYGESGDEL-----AGKFLSNDNASYVFGSKRDKTKTPVATKIYVFS-AGFE--480

QY 358 EPITFEVAKGVYTIIDGKQIENP-NKEIVEPYSEVAY-----NDEEFSVLTTQ-- 406

DB 481 KPSTSEVDNETTIGIIDRKGLNHNHNEDELIIPSDDSYGYTWGPKPEKQFTKKVSSSTQV 540

QY 407 -----NKAFFYVAKNNNGSSQVYCFNADLKSPPDESDGKMTTPTPTTGEV----- 453

DB 541 PAYEGQDKFFYF-----NGNYDLSASRVKLABADAVKANQSIKEKYNPANTLKNQVYA 596

QY 454 -----KYTHA-GRDLF-----KYTVKPRDTPDPEFLKIKKY 485

DB 597 IYVQEAQDKKPYTAIRAKSYQHISFETLYLNDANQTPTRSYFGGRATSTTLPRAGAF 656

QY 486 I-----EKYREKGAIEYSG-----LTETOLRAATQAIYFT-----DS 521

DB 657 TYNGLWAGYLTQKKDGYSDMAETIKERKHPGYLTEN-----FPEDDDDL 704

QY 522 AELDKRLNDYHFGMDNSTLAVAILVEYADSNPQTLDTDFIPINNKYQSLSIGQ 581

DB 705 TASDSQDDNTHTGDDL-----IASDSQDDDDADDDBDDL--GDGADDDAAGV 753

QY 582 WHPEDLVDTIIRMEDKKEVIVP--TNLTL-----RKYVGLAGDRTKDF 623

DB 754 YHAGN-----IRPEFENKYLPIINEPTHEKTPALDGKKAKAFVDFNTNSLTKLNDRGI 809

QY 624 HFEIELKNNKQELLISQVTKDTKTNLEFKDKGKATINLKHESLTLQGLPEGSYLYKETDS 683

DB 810 VFDI--KNKIDGTGTAKADVPNRYEYVG--NNQG-----GLIYNKIDIV 853

QY 684 EGYKRVNSQVNA-----NATVSKTG-----ITSDETAFENKKEPVYPIGVQ 727

DB 854 KGFQFTNGEELAGQJLHDKGDGINPTAKAGAVGAVKDKMSITKTQTPSVHMTTH 913

QY 728 KINGYL--ALIYAGISLGIW 746

DB 914 RLNLAKALFGVAVPLSVW 934

RESULT 8

US-08-851-567B-49

Sequence 49, Application US/08851567B

Patent No. 6528484

GENERAL INFORMATION:

APPLICANT: Ensign, Jerald C

APPLICANT: Bowen, David J

APPLICANT: Petell, James

APPLICANT: Fatig, Raymond

APPLICANT: Schoonover, Sue

APPLICANT: french-Constant, Richard

APPLICANT: Rocheleau, Thomas A.

APPLICANT: Blackburn, Michael B.

APPLICANT: Hey, Timothy D.

APPLICANT: Merlo, Donald J.

APPLICANT: Off, Gregory L.

APPLICANT: Roberts, Jean L.

APPLICANT: Strickland, James A.

APPLICANT: Guo, Lining

APPLICANT: Cliche, Todd A.

APPLICANT: Sukhplinda, Kitisri

TITLE OF INVENTION: Insecticidal Protein Toxins from Photobabidus

NUMBER OF SEQUENCES: 88

CORRESPONDENCE ADDRESS:

ADDRESSEE: Dow Agrosciences Patent Department

STREET: 9330 Zionsville Road

CITY: Indianapolis

STATE: IN

COUNTRY: US

ZIP: 46268

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible

SOFTWARE: PC-DOS/MS-DOS

CURRENT APPLICATION DATA:

```

APPLICATION NUMBER: US/08/851,567B
FILING DATE: 05-MAY-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/063,615
FILING DATE: 18-MAY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/395,497
FILING DATE: 28-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/007,255
FILING DATE: 06-NOV-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/608,423
FILING DATE: 28-FEB-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/705,484
FILING DATE: 28-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J
REGISTRATION NUMBER: 27386
REFERENCE/DOCKET NUMBER: 960296,93804
TELECOMMUNICATION INFORMATION:
TELEPHONE: 608-251-5000
TELEFAX: 608-251-9166
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 1849 amino acids
TYPE: amino acids
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-851-567B-49

```

```

Query Match          3.9%; Score 152; DB 4; Length 1849;
Best Local Similarity 18.3%; Pred. No. 0.0043;
Matches 148; Conservative 120; Mismatches 287; Indels 254; Gaps 37;

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QY 157 AVMYNGHPNANGIMEGLEPNAIRVPOE-AWYYSQ-----NAPISNDESKRRE 208
DB 796 AOOQVAPQVSAV-GDDYIQSMKEPTTYQWENAGVLTAGLNSQOATLHAFLDSR 854
QY 209 SINVST---SOLSLMRQALKO-----LIDPNIA-----TKMKQVDDFOL- 246
DB 855 SAALSTYIRQVAKAAIKSRDDLQYLLIDNQVSAIKTRILAEAL-SGLQVYNAL 913
QY 247 -SIFSEDKG-----DKYNGYONLLSGLVPTKPPPGDPPMPNQPTSVLI 295
DB 914 ENVEENANSQVISHQFIDMDKYNKRYSTWAGVSQLVYYPENYIDPTMRIGQTKMDALL 973
QY 296 RKYA-----IGDYSKLLEGATLQLTGNVNSFOARF-----SSNDIGE- 334
DB 974 QSVSOSQNLADTVEDAFMSYLTSPFQVANLKVISAHYHNNDOGLTYFGLSEDAEY 1033
QY 335 -----RIELSDGTYTLT-----ELNSPAG--YSIAEPTFEKVAGKYVT-IDGKQIE 379
DB 1034 YWRSVDHKKFNDKFAANANSEMHIKIDCPINPKYSTIRPVYK---SKYLILMLEOKELT 1090
QY 380 NPNKEIYEPYSVEAVNDFE-----EFSVLTON-----YAKF 411
DB 1091 KOTGNSKDGQOTENDYRELKLAHRYDGTWNTPTTFDVNKKISLEKKNRAGPLGACG 1150
QY 412 YYAKN-----KNGSSQVYVCFPNADLKSPPSDEGKATMP----- 446
DB 1151 YQGEDTLLVMEYNOODTLDSYKNSMOGLYIF-ADMAS-----KDMTEQSNVYRDN 1201
QY 447 -----DFTTGEVKYTHIAGRDLEFKTVKRPDRDP 475
DB 1202 SYQEPDTNNVRVNNRYAEDYEIPSSVSSRKDDYGGDYYLSVNYNGDPTTNYKRASSDL 1261
QY 476 DTFPKHKKVIEKGY---REKGAIEYSGLETOLRAATOLAIIYFTSDAELDKDKMD 531
DB 1262 KIYISPKRLIHNHNGYEGQKRNOQCNLMNKYGLKSGKFIYVTSLSGVNPNNSNKLMPYVYQ 1321

```

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QY 532 YHFGDMNDSTLAAKILVEYAQDSNPQOLDLDFEIPNNK-----YOSLIGTQW----- 582
DB 1322 YSG---WTSGINQGRLL--FHRTTYP--SKVEAMIGCARSLTNQNAAGDDVATDSL 1373
QY 583 -HPEDLVDIIRMEDKEVI-----PVTHNLTL---RKVTGAGDRTPDFHE----- 626
DB 1374 NKPDDLKQYIFMTDSKGTATVDSGVEINTAISPAKVQIYKAGKEDGTFADKDVSTOP 1433
QY 627 -----ITLKNKQELLSQYTKDKTNLEF-KDK-----ATINLKHG 662
DB 1434 SPSEFENNYQFNALEIDSGLNFINNSASIDVTFAPAFEDGKRLGESFSLPVTLKSTVD 1493
QY 663 ESTLQGLPEGSYLVKFTDSGKYVKVNS---QEVANATYSKGTISDETLAEENKE 718
DB 1494 NALTLHNHNGAQVY---QWOSYTRTLNLTFLAROLVARAT---TGIDTILSMETQNIQ 1546
QY 719 PVPTGVQDKINGYDALIYVIGISIGING 747
DB 1547 P-----QLGKGFYATFVIPPYNLSTHG 1568

RESULT 9
US-08-851-567B-47
Sequence 47, Application US/08851567B
Patent No. 6528484
GENERAL INFORMATION:
APPLICANT: Ensign, Jerald C
APPLICANT: Bowen, David J
APPLICANT: Petell, James
APPLICANT: Fatig, Raymond
APPLICANT: Schoonover, Sue
APPLICANT: french-Constant, Richard
APPLICANT: rocheleau, Thomas A.
APPLICANT: Blackburn, Michael B.
APPLICANT: Hey, Timothy D.
APPLICANT: Merlo, Donald J.
APPLICANT: Orr, Gregory L.
APPLICANT: Roberts, Jean L.
APPLICANT: Strickland, James A.
APPLICANT: Guo, Lining
APPLICANT: Cliche, Todd A.
APPLICANT: Sukhplinda, Kilsiri
TITLE OF INVENTION: Insecticidal Protein Toxins From Photorhabdus
NUMBER OF SEQUENCES: 88
CORRESPONDENCE ADDRESS:
ADDRESS: Dow AgroSciences Patent Department
STREET: 9330 Zionsville Road
CITY: Indianapolis
STATE: IN
COUNTRY: US
ZIP: 46268
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851,567B
FILING DATE: 05-MAY-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/063,615
FILING DATE: 18-MAY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/395,497
FILING DATE: 28-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/007,255
FILING DATE: 06-NOV-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/608,423
FILING DATE: 28-FEB-1996
PRIOR APPLICATION DATA:

```

```

: APPLICATION NUMBER: US 08/705,484
: FILING DATE: 28-AUG-1996
: ATTORNEY/AGENT INFORMATION:
: NAME: Seay, Nicholas J
: REGISTRATION NUMBER: 27386
: REFERENCE/DOCKET NUMBER: 960296, 93804
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 608-251-9166
: TELEFAX: 608-251-5000
: INFORMATION FOR SEQ ID NO: 47:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 2516 amino acids
: TYPE: amino acids
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-851-567B-47

```

Query Match 3.98; Score 152; DB 4; Length 2516;

Best Local Similarity 18.38; Pred. No. 0.007;

Matches 148; Conservative 120; Mismatches 287; Indels 254; Gaps 37;

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QY 157 AVMYNGHPONANGIMESLEPLNAIRYQF-AVWYISD-----NAPISPDSEFRKESE 208
DQ 884 AQQUNAAQGVSAUV-GLDYIOSKKEPTYYAQWENAGVLTAGINSQOANTLHAFLDESR 942
QY 209 SNLVSF---SOLSLMRQALKQ-----LIDPNLA-----TKMKQVPPDFOL----- 246
DQ 943 SALLSTYIRQVAKAAAIKSRDLYQYLIDNGVSAKITRRAELIA-SIQLYVNRAL 1001
QY 247 -SIFESDEKG-----DKYKGYQNLISGLVPTKPPPPGDPMPNPQOTSVL 295
DQ 1002 ENVEEANANGSVISROFEIDWDKYNKRYSTWAGVSQLYVYPENYIDPTMRIGQTKMDALL 1061
QY 296 RKVA-----IGDYSKLLEGATLQIGDNVNSFOARVF-----SNDIGE- 334
DQ 1062 QSVSOSQOLNADYEDAFMSLITSEQYANIKVISAHDNINNDGGLTFYIGLSETDAGEY 1121
QY 335 -----RIELSDGTYYTLT-----ELNSPAG--YSIAEPTTFVEAGKYVTI-IDGKOIE 379
DQ 1122 YMRSVDSKFNDEKFAANAMSEWHKIDCPINPYKSTRPIYTK---SRLLMLMEQKEIT 1178
QY 380 NPKKEIYEPYSVAIYNDFE-----EFSVLTQON-----YAKF 411
DQ 1179 KQGNKSKDGYQTEYEDRYELKLAHIRYDGTWMTPIFDVANKISELLEKNRAAGLYCAG 1238
QY 412 YVAKN-----KNGSSQVYCFNADLSPDSEDEGKTMPP----- 446
DQ 1239 YQEDPILVAFYNOQDTLDSYKNASMOGLYIF-ADMAS-----KDMTPEOSNYYRDN 1289
QY 447 -----DETTGEVKYTHIAGRDLFFRYTVKPRDTP 475
DQ 1290 SYQGFDTNNRYRNNRYAEDYEIPSSVSRKDYGMWGDIYLSMNYNGDIPITNKAASSDL 1349
QY 476 DTFLLKHKKYIEKGY---REKGALEYSGLTETQLRAQTQALAIYFTDSAEIDKDKLKD 531
DQ 1350 KTIYSKRLRIHNGYQOKRNOCLNKKYGLKDGKTLVYSLGVNPNSSNKLMEFPVYQ 1409
QY 532 YHGFQGMNDSTLVAKILVEYAODSNPOLDLDFIPNNK-----YQSILGTQW----- 582
DQ 1410 YSG-----NISGLNQGRL--FHRDTYTP--SKVEAMTPGAKRSILTONAIGDYANDSL 1461
QY 583 -HPEDLVDIRMEDKKEVI-----PYTHNLTL---RKYVTGLAGDRTKDFHFE----- 636
DQ 1462 NKPDLDKQYLFMTDSKGTATDVGPEINFAISPAKQVILVKAAGKQGTFTADKQVSIQ 1521
QY 627 -----IELKNKQELLISQVTKDKTNLEP-KDGK-----ATINKHG 662
DQ 1522 SPFSDEMNQNALNEIDSGLANINNSASIDVTFRTFAEDGRKLGYESFSIPTLVKST 1581
QY 663 ESTLLOGLPFGYSYLVKETDSEGYKVKVNS---OEVAANATVSKTGITSETTLAFENKKE 718
DQ 1582 NATLTHHNENGAQYV-----OMOSTYRTRNLTLFAROLVARYT---TGIDITLISMETONIQ 1634

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QY 719 PVVPTGVQKINGLYALIVAGISLGIWG 747
DQ 1635 P-----QLQKGFYATFVIPPYNLSTHG 1656

```

RESULT 10

US-09-327-536-2

; Sequence 2, Application US/09327536

; Patent No. 6355477

; GENERAL INFORMATION:

; APPLICANT: FISCHETTI, Vincent A.

; APPLICANT: ROCHA, Claudia

; TITLE OF INVENTION: FIBRONECTIN AND FIBRINOGEN BINDING PROTEIN FROM GROUP A

; FILE REFERENCE: 029227-008

; CURRENT APPLICATION NUMBER: US/09/327,536

; CURRENT FILING DATE: 1999-06-08

; PRIOR APPLICATION NUMBER: US 08/714,402

; PRIOR FILING DATE: 1996-09-16

; NUMBER OF SEQ ID NOS: 2

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 2

; LENGTH: 1161

; TYPE: PRT

; ORGANISM: SFEBP gene

US-09-327-536-2

Query Match 3.88; Score 150; DB 4; Length 1161;

Best Local Similarity 19.98; Pred. No. 0.003;

Matches 191; Conservative 121; Mismatches 326; Indels 324; Gaps 51;

```

QY 21 KNSKRFVTLV--GVFLMI-----FALVTSWGAQTYEGLVESSTPNAINPSSSEYRW-- 72
DQ 112 KTSRTMVTYTYEYNGYTRKLVENPNYNGELISKAGSKDY-----SSSLQENPKMSVSKYCK 166
QY 73 ----YGYESTYVRGHPYI-----KQ-----FRVANDLRVNEGSSYQYCYC 109
DQ 167 TEVSSGADEPRYRHAAYFKMSFELKQDKKSETINPGDTFVLQDRRLNPKG----- 217
QY 110 NLKARP-----LGSSSYKWKYKKHDKGSTKEFDA----- 217
DQ 218 -ISODIPKIIYDSANSPLAGKTHAEHQULYFTDILAGLDKVVQLSAEISLEFLENKEVL 276
QY 142 -----MSPRINGDELNOK--LRAVYNGHPONANGIMEGL-----EPLNAIRVTOE 185
DQ 277 ENTSISNFKSTIGQETTYGTYVNLXGNSTESNVTITGLNAGSGSIESYNT--ETGE 334
QY 186 AVWYISDNAPISN-PDESEK-----RESENLVSTISQLSLMRQALKQILDPNLTAKP 237
DQ 335 FVWYVYVNPRTNIPYATNLMGFGHARSNTSDLENDANTSALGEIQYEVPEGEKLP 394
QY 238 KOVPDD-----FOLSIPESEDKGDK--YKKGY----- 262
DQ 395 SSGYGVDTYKLTLTDTITAGLNGFQMTKKRQIDFGNNIONKAFITIVTGKTDOSGRPIYV 454
QY 263 -QNLIS-----GG-----LVPTKPPTPGDPMPNPQOTSVLIRKXA 299
DQ 455 QSNLASPRGASEYAFTPVGNGVYFQNEIALSPKSGSGSKSEF--TKPSITVANKRVA 512
QY 300 IGYYSKL-----LEGATLQDLDNNSFPARFSSNDIGE--RIELSDGTYYTLTLENSP 351
DQ 513 QLRFKKMSDUNVPLPEAFAELRSSNGNS-OKLEASSVTQGEVHFKDLTSGTYDLYETKAP 571
QY 352 AGYS-----IAPPIPF-----KVEAGKVVYTIIDGKO--IENPNKEIYE 387
DQ 572 KGIQYQTEKATYVDTTKRAEEMVTVGSHSSVYKAEANKEVITVNHKEITFSGKKIME 631
QY 388 PYSVEAYNDPEERSVLTQONVYAKFYAKKNGSSQVYVYCFNADLSPDSEDEGKTMTPD 447
DQ 632 -----NDRPD-----QNPAKIQYQOLLONG-----KMPNQIQE---VTMD 663
QY 448 FTTGEVYKTHIAGRDLFFRYTVKPRDTPDTFLKHKKYIEKGYREKGALEYSGLTETQ 507

```



```

Db      664 ---NDMSY-HF--KDLPRYDAKNDE-----YKSYEEVNVPDGKYKSYLGNDIFNT 708
Qy      508 RAAPOLATYVFTDSAEIDKDKLDVHGFGDMNSTFLAAKLIVEAADS--NPQLTDL 565
Db      709 R-ETEEVEPENNFEFNNAELKGGSGSKITDEDTLTSEFKGKKIKMNDPAENPAIOVQ 767
Qy      566 FF-----IPNNKKYSLIGTOMHPE-----DLY-----D 589
Db      768 LYADCAVAEGQTKFTSSGSGNEMSEFFKNLKKYNGNDLIYSKEVYPTGVDYYSAND 827
Qy      550 IIRMEDKEVI-----PVTNHLTKRTYVGLAGDRTKDFEIE---LKNKQELLIS 638
Db      828 II--NTKREVIQQGPKLEIETTLPLESGASG--GTTVEDSRPVDTLGSLSEQOSGD 883
Qy      639 QTVKTKD-TNLEFK----DGK----ATINLKHGESLTLQG-----LPRGYSYL 677
Db      884 MTIEDSATYHIKFSKRDIDGKELAGATMELRDSGKTIJTWISDQVDFYLMPEKTYF- 942
Qy      678 VKETDESGYK-----KVNSEVANATVSKTGITSDETLAFENKKEPVPTG---VDQ 727
Db      943 VETAPDGYETATATITFTVNEQ--GQVTVNGKATGDIHIVVDAIKFTKSGGVYIDIE 1000
Qy      728 KI 729
Db      1001 KI 1002

```

```

RESULT 11
US-09-071-035-458
; Sequence 458, Application US/09071035
; Patient No. 6448043
; GENERAL INFORMATION:
; APPLICANT: Gil H. Choi
; TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides
; NUMBER OF SEQUENCES: 496
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/071,035
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: A. Anders, Brookes
; REGISTRATION NUMBER: 36,373
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 458:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2032 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-071-035-458

```

```

Query Match      3.8%; Score 149; DB 4; Length 2032;
Best Local Similarity 19.0%; Pred. No. 0.0087;
Matches 178; Conservative 117; Mismatches 330; Indels 310; Gaps 44;

```

```

Qy      19 LSKNSKRFYTLVGVFLMIFALVTSNV-----GAKTVG-----LVESSTPNAI 62
Db      1098 LKTKMDETTILAGAHFOIMDAKTOVLRGTVDTGVTTFGGLOGOYIIVETAP--- 1154
Qy      63 NPDSSSEYRWGYESYVRGHPYKQFRAAHLRLVLESGRSYQYCFNLKKAFLPGSDSS 122
Db      1155 -----EQTYSDELAKGRVITIDETSAGAQ-P-TIIKNDVKNYFLKEMDEK 1200
Qy      123 YKAW---YKKHDGISTKF---EDYAMSFRITGDELNOKLRAVMTNGHPQANGIME--G 173
Db      1201 GKLLVNAEFKLEHAATVTFTHWEVPLADRT-----NANGOLEVDS 1242
Qy      174 LEP-LNAIRVQEAIVWYSDNAP-----ISNPDESKRESSE 210
Db      1243 LKPGLYQTEIAPLPGLYLDITPKPFYVTONTSQOIRDVHVMYVQSGASLEIKRDQGN 1302
Qy      211 LVSTQSLISM---ROALKO--LIDPNLATKMPQVDDFOLSIFESEDKGDKYKNGYQL 265
Db      1303 PLAGADEFSLDTGTGQAVREHLVSDANGKVTVDLAPKXQF---VEIKAP----- 1349
Qy      266 LSGLVPTKPPPTGPPMPNPQPT-----TSVLIRKAYAGDYSKLEGCATLQ 313
Db      1350 -AGYLLNTEPSAFTIAASDRGPATVIATANFVNYGTAKLIKDVNG---HLISGATPK 1405
Qy      314 LTGDVNSFOARVFPSSNDIGERI--ELSDGTYTLELNSPAGYST-APRTTKV---ENG 367
Db      1406 YLDAGETLTQGL--TTNNGGETVABHLAAGKYRVEYAKPTGYLLNTPTVPPEIAEKNG 1464
Qy      368 K-----VYTIIDGQLEIENKEIPEVSYEAANDPEEFSVLTOYVAK-- 410
Db      1465 KPAVVVADNPEVSYGAFQIVTNSADQPLAGAV---FELY-DHNKOSLGITATSGDKG 1519
Qy      411 -----FYVAKNK-----NGSSOVVYC-----FNADLKSPSEDDGKTMTPDE 448
Db      1520 KIIIFRDLAGPYTYKEIKAPKLPDGAADVLIYELVKEIRGDFKQDEI-----F 1569
Qy      449 TTGEVYKTHIAGRDLEFKTVKPRDPTDFLKHKKIVIEKGR-----EKGQAI--- 497
Db      1570 QLG--AFANFKGRAVEKIDANANPLPGTIFLYR--IENGKIFEREVYTAEKDGLAME 1625
Qy      498 -----EYSGLTETQLRAATOLATLYF-----TDSAEIDKDKLDYHG--FG--DNMD 540
Db      1626 DLGAGSYELDELDAIDGIVYKQPIYFYVKKKNSNKQPLDELEFYVQAQVWGRKRVNEDG 1685
Qy      541 STLAAVAKILIVEYAQDSNPOLTDLDEFIPNNKKYOS----- 576
Db      1686 QTLAGAVFAIYNADQONQDQSPITFELNNAKGEVSEITTDKGEIYANGLNGHYLVET 1745
Qy      577 -----LIGTOMHPEDVDIIRMEDKKEYIPVTHNLTKRYTGLAGDRTKDFHEIELEK 630
Db      1746 KAPTGYLLDPTLHP---EDVTAQLGKEQPIALGDIJNYQVTA-----QLTKE 1789
Qy      631 NNNKQELLISQTV--KTDKTNLEFKDGKART-NLKHGESLTLQGLPRGY-----SYLV 678
Db      1790 NETGALAGAVFAKVIDETG-QTVDDQTNLMSKQKVIYAKNLAPGTIRVETQAPFTSYLL 1848
Qy      679 KETDESGYK-----YKVNSEEVANA----- 698
Db      1849 NETPSASFTIAKDNQGPATVVLKAPETVYGAAKLVKIDQCKNLALAGAEFKVTDAGETQ 1908
Qy      699 TVSKTGITSDETLAFENKKEPVPTGVDOKIT-NGY 732
Db      1909 TVARSLRSDNGLVQVNHLLQPKYFVEYTRKADGY 1943

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```

RESULT 12
US-09-071-035-462
; Sequence 462, Application US/09071035
; Patient No. 6448043
; GENERAL INFORMATION:
; APPLICANT: Gil H. Choi
; TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides

```

```

? NUMBER OF SEQUENCES: 496
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Human Genome Sciences, Inc.
? STREET: 9410 Key West Avenue
? CITY: Rockville
? STATE: Maryland
? COUNTRY: USA
? ZIP: 20850
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage
? COMPUTER: HP Vectra 486/33
? OPERATING SYSTEM: MSDOS version 6.2
? SOFTWARE: ASCII Text
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/09/071,035
? FILING DATE:
? CLASSIFICATION:
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER:
? FILING DATE:
? ATTORNEY/AGENT INFORMATION:
? NAME: A. Anders Brookes
? REGISTRATION NUMBER: 36,373
? REFERENCE/DOCKET NUMBER: PB369P2
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (301) 309-8504
? TELEFAX: (301) 309-8512
? INFORMATION FOR SEQ ID NO: 462:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 2032 amino acids
? TYPE: amino acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? US-09-071-035-462

Query Match      3.88; Score 149; DB 4; Length 2032;
Best Local Similarity 19.0%; Pred. No. 0.0087;
Matches 178; Conservative 117; Mismatches 330; Indels 310; Gaps 44;

QY 19 LSKNSKRFYTLVGLVFLMIFALVTSWY-----GAKTVFG-----LVSSSTPNAI 62
DB 1098 LKRTADETTLGLAHFQIWDQAKTQVLRGVDAFGVITFGGIPQGGYILVETKAP--- 1154
QY 63 NPDSSSEYRWYGYEYVGHYKOPFVAHDLRVNLEGSRSYOVYCNLKKAPLGSSS 122
DB 1155 -----EGTVSDELAKGNVITIDEETSAGAP-11IKNDVAKVLEKKDEK 1200
QY 123 VKRW---YKHDGISTKF---EDYAMSPRITGDELNOKLRAVYNGHPONANGIME--G 173
DB 1201 GKTLVNAKFLKLEHAVTTPFTFMEEVPLAPDRT-----NANGQLEVD 1242
QY 174 LEP-LNAIRYTOGAVMYVYSDNAP-----ISNPDSKRRRESN 210
DB 1243 LKGLGLOFTEIEAPGTLDTTPKRTIVYNTISGQIRDVHVKMLNTQGSALIKKQOAGN 1302
QY 211 LVSTQSLSLM---RQALKQ--LIDPNLATKMPKQVDDPOLSTFESDEKDKYKNGYONL 265
DB 1303 PLGAGFEFVLDITGGQAVREHLVSDANGKVTYVTDLAFGKYF---VETKAP----- 1349
QY 266 LSGGLVTPKPPTPGDPMPNPQOT-----TSVLIRKVAIGDYSKLLEGATLQ 313
DB 1350 -AGYLLNTEPSAFTIASDRGKPAVIATANFVNYOGTAKLIKDVNG--HLLSGATFK 1405
QY 314 LIGDNNNSFOARFSSNDIGERT--ELSDCTYTLTELSNAGSIT-AEPTTFV---EAG 367
DB 1406 VLDANGETIQTGL-TTNNGEIVAEHIAHPGKRFVETKAPTYGILLTTPVPEIAEKMG 1464
QY 368 K-----VYTIIDGQJLENPKKEIVEEYSVAVYNDPEEFVLTQNYAK-- 410
DB 1465 KPAVVVASDNFVSFKAFQIVTKNSADQPLAGAV---FELY-DHNKQSGITATSGKDG 1519
QY 411 -----FYAANK-----NGSSOVVYC-----FNADLKSPDSEDGSGTMTPDF 448

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DB 1520 KIIFRLAPGTYYYKKEIKAPKLDPGADYIITPELVKEIRGDKGDEI-----F 1569
QY 449 TTGEVKTTHIAGNRLFVYTKPRNDPDTPLKHKKVIEKGR-----EKGAT--- 497
DB 1570 QLG--AFANFKGRAVFKIDANNPDPGLTKLYR--TENGKIFEREVTAEDKSLAME 1625
QY 498 -----EYSGLTETQIARAATOLAIYF-----TDSALDKDLKDYHG--FG--DMND 540
DB 1626 DLGAGSYELDELATDQIYNNKQPIYVYVAKNSDKRDPDELEFVYVQAEMGRKNVEG 1685
QY 541 STLAVALIVEIYQDSNPQOLTDLDEFIPNNKRYQ----- 576
DB 1686 QTLGAVFAIYNADQONQPOGSPITFLNRAGEKVSITTDKTEIYAKGINEGHVYLVET 1745
QY 577 -----LIGQWHEDELDIIRNEDKKEVPYTHNLIRKTVYGIAGDRKDPHFELEK 630
DB 1746 KAPTYLDTTLHP---EDVTAOLGKQPIALDLDLYQSTA-----DLTK 1789
QY 631 NNRQELISQTV--KTDTNLEFRDKGKATI-NLKHGESLTLOGLPEGY-----SYLV 678
DB 1790 NETGEALAGAVFVIDETG-QYVDGQTNLMSDKQGVIAKNLAPGYRFVETQAPSYLL 1848
QY 679 KETDSEGYK-----VKVNSQEVANA----- 698
DB 1849 NETPSASFTIANKDNQGRKPAVVLKAPFINYOGAAKLVKIDQKNALAGAEFKYTDATGQ 1908
QY 699 TVSKTGITSDETLAFENKKEPVYPTGQDKI-NGY 732
DB 1909 TVARSLRSDNQGIVQVNHLPQKTYTVEYETKAPDGY 1943

RESULT 13
US-09-071-035-466
? Sequence 466, Application US/09071035
? Patent No. 6448043
? GENERAL INFORMATION:
? APPLICANT: Gil H. Choi
? TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides
? NUMBER OF SEQUENCES: 496
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Human Genome Sciences, Inc.
? STREET: 9410 Key West Avenue
? CITY: Rockville
? STATE: Maryland
? COUNTRY: USA
? ZIP: 20850
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage
? COMPUTER: HP Vectra 486/33
? OPERATING SYSTEM: MSDOS version 6.2
? SOFTWARE: ASCII Text
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/09/071,035
? FILING DATE:
? CLASSIFICATION:
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER:
? FILING DATE:
? ATTORNEY/AGENT INFORMATION:
? NAME: A. Anders Brookes
? REGISTRATION NUMBER: 36,373
? REFERENCE/DOCKET NUMBER: PB369P2
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (301) 309-8504
? TELEFAX: (301) 309-8512
? INFORMATION FOR SEQ ID NO: 466:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 2032 amino acids
? TYPE: amino acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: protein

```

QY	19	LSKSKRPFTYVLVQVFLMFLVLSM-----GAKTYEG-----LVESSTPANI	62
Db	1098	LKTKAMETITLILAGAHFOIMQAKTOVLRESTDATGYITTGGLPQOYILVETAP---	1155
QY	63	NPDSSSEYRMVGYESYVGRHEVYKQFRVAHDLRVNLGSSRSYOYCFNLKKAFFPLGSDSS	122
Db	1155	-----EGYTVSDELAKGRAVITIDEETSAEQAOP--TIKKNVNFLEKMBEK	1200
QY	123	YKKW-----YKKHDSITKF---EDYMSPRITGDELNOKLAAVMTNGHPONANGIME--G	173
Db	1201	GKKLVNARFKLEHNAVTTPTFTHMEEVPLAPDRT-----NANGOLEVDS	1244
QY	174	LEP-LNAIRYQEAVMYVSDNAP-----ISNPDSFKRESESN	210
Db	1243	LKPLOYFTELEAPVGLDPTPKRFITYQNTSGQIRBVHVKMLNYGSAELIKKDAQN	1304
QY	211	LVYSISQSLM---KQALKQ--LIDPNLATAKPKQYPPDDFQLSIFESEKGDYKNGYONL	265
Db	1303	PLAGAEFSVLDTTGOAVAREHLVLSANGKRVYITDLAPGRYQF---VETKAP----	1345
QY	266	LSGGLVTPKTPPTPDPPMPRPOPT-----TSVLIRKVAIDYSKLEGATLO	313
Db	1350	-AGYLLNTEPSAFTIASSDRCKPATVATANFVNYGQAKLIKKNQVNG--HLSGATFK	1405
QY	314	LTCGNVNSFOARVSSNDIGERT--ELSDGYITTELNSPAGYST-AEPIITFKV---EAG	367
Db	1406	VLDAKGETIQGL--TTNNGEIVAEHPLAPGRYRVEVEKAPGCGYLLNTTPVPELAEKNAG	1466
QY	368	K-----YTTIIDQKQIENPNKEIPEYSVAAYNDPEEFSVLTQNYAK--	410
Db	1465	KPAVYVASDNVSKAGAFQIYKNTSADQPLAGAV---FELY-DHNKSLGTTATSGDG	1511
QY	411	-----FYAAKNK-----NGSSOVYC-----FNADLSPPDSEGGKTMPTDF	448
Db	1520	KIIFRDLAPGYYKEIKAPRLPGADYIILPELVKEIRDPFGKDPEI-----F	1565
QY	449	TTGEVYKTHIAGRDLFKRYTVKPRDTPTEFLKHIKVIEKGYR-----EKGQAI---	497
Db	1570	QLG--AFANRGRGAVFKKIDANANPLBETITKLR--TENGEKIFEREVTLAEKDSLAME	1622
QY	498	-----EYSGLETQLRATQALYYF-----TDSAELEDKDKLDYHG--FG--DMND	540
Db	1626	DLGASYELEDLDTDGYIVAKQPIEYFVKKNSNDKQPLDELEFVNYQAEVWGRKYNBQ	1685
QY	541	STLAVAKIIEVYAADSNPOLTDLDEFIPNNKNKQS-----	576
Db	1686	QTLAGAVFAIYNADQNOPQSSPTFLNLRAGEKSEITTDKTGELIYAKGLMEGHVLYET	1744
QY	577	-----LIGTQWPEBDLVDIIRMEDKKEVIVTNLTLRKTVTGLAGDRTKDFHREIELK	630
Db	1746	KAPTYGLDPTIHP---FDVYTAQSGKQPIALGDLINYGTA-----QITRKE	1789
QY	631	NNKQCELLSQYV--KTDKTNLEFKQKQKATI-LLKKGESLITLOGLEPGY-----SVLY	678
Db	1790	NEGGEALAGAVFKYIDETG-QYVDGQTNLMSDKQKVIYAKMLAPETTYRFVETQAPTSTYL	1846
QY	679	KETDSEGYK-----VKVNSQEVANA-----	698
Db	1849	NEPFSASFATIAKDNOGKPAIVVLKAPFINTYGAAKLVIYIDQOKNALAGAEFKVTDATGQ	1906
QY	699	TVSKTGITSDETLAFENNKKEPVYTVGDQKI-NGY	732
Db	1909	TVARSLSRSDNOGLVOVNHLDQKTYTFVETKAPDGI	1943

DD 343 PLAN - VIKALSKAND

[illegible]

343 PLAN--VNFKLSKNDGSVKLDNQ-----KELEILIDANGIANIKALPSGDIILKELEAPR 39/

QY 253 ----DKGDKY-----NKGYNLISGL-----VPTKPPTPGDPMPMPNPQPTTSV 293
 Db 398 PYTFDKDKKEYPTFMKOTDNOGYFTTINAKAIEKTQKVSQKWEQYQKRP-----TI 451
 QY 294 LIRKKAIGDYS-----KLEGGTLOITGDVNSFOARVSSND-IGERIELSDGT 342
 Db 452 YFKLYKODDNONTPYDKAEIKKLEDDGTTVWMSNL-----PENDKNGKAIK----- 498
 QY 343 YTTLELN-----SPAGYSIAE-----PI-FFKVGAKYVYTIIDGKQIENPKKEI 385
 Db 499 YLKEVNAOGEEDTTPETCTKKNGLVYTNTEKPELTISISEKAWDKDQDQKRPK-- 556
 QY 386 VEPYSYEAUNDPEEFVLTTONYAKFY-----AKNKGSSQVYVYCPNADLKSPDSEDG 440
 Db 557 ----VSVNLANGEKVKTLVDYTSETNMKYEFDLPKYEDEG-KKIEYTVTEHDVMDYTTDIN 612
 QY 441 GKMTPTPTTGGEKYYTHIAGRDLEKTYVVKPRDDPDTFLKHKKIVK----- 488
 Db 613 GTTYTNKYPTEGTSATYTKWMDNNDGKRPEIKVELYQDGKATGKTALNESNMTH 672
 QY 489 ----GYREKQALIEYSGLTETOLRAATQ-----LAIYFTDSALDKDLKDY 532
 Db 673 TWTGLDKAKGOOVKYVEELTKYKGTTHVDNNDGNLVTNKYTPETTSISEKAWD- 731
 QY 533 HGFDMNDSTLAVAKILVEYAODSNPQTLDELFFIPNNKYOSL---IGTOWHPEDLVD 589
 Db 732 ----DKDN-----QDGKREKYSVN-LLADGEKVKTLVDYTSETNMKYE-FKD 772
 QY 590 IIRMEKKEVYPTNHLTKRYTGLAGDKTDFHEIE-----LKNKQELLSQYVKT- 643
 Db 773 LPRYDECKKI-----EYTVV---EDHVKDYTDINGTITNKTPTSETSATYVKNW 820
 QY 644 -DKTNLE-----FKDGKAT-----INLKHGSLFLQGLPE-----GYSYLKE- 680
 Db 821 DDNNNDGKRPEIKVELYQDGKATGKTALNESNMTHWTGTGLDEAKGOOVKYVEEL 880
 QY 681 TDSEGYKVKVNSEVANATVSK-----TGITSDELAFENKPEVYPTGVOKI--NG 731
 Db 881 TKVKGYYTHVDNNDGNLVTNKYTPETTSISEKAWDDQDQKREKYSVNLANG 939

RESULT 15
 US-08-714-402-2
 : Sequence 2, Application US/08714402
 : Patent No. 5910441
 :
 : GENERAL INFORMATION:
 : APPLICANT: ROCHA, Claudia
 : TITLE OF INVENTION: FIBRONECTIN AND FIBRINOGEN BINDING
 : TITLE OF INVENTION: PROTEIN FROM GROUP A STREPTOCOCCI
 : NUMBER OF SEQUENCES: 2
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
 : STREET: P.O. Box 1404
 : CITY: Alexandria
 : STATE: Virginia
 : COUNTRY: United States
 : ZIP: 22313-1404
 :
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: Patentin Release #1.0, Version #1.30
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/714,402
 : FILING DATE: 16-SEP-1996
 : CLASSIFICATION: 435
 : ATTORNEY/AGENT INFORMATION:
 : NAME: McGowan, Malcolm K.
 : REGISTRATION NUMBER: 39,300
 : REFERENCE/DOCKET NUMBER: 016921-097
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: (703) 836-6620

TELEFAX: (703) 836-2021
 : INFORMATION FOR SEQ ID NO: 2:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 1112 amino acids
 : TYPE: amino acid
 : STRANDEDNESS: single
 : TOPOLOGY: linear
 : MOLECULE TYPE: protein
 :
 : US-08-714-402-2

Query Match 3.7%; Score 145; DB 2; Length 1112;
 Best Local Similarity 19.8%; Pred. No. 0.0077;
 Matches 190; Conservative 121; Mismatches 327; Indels 324; Gaps 51;

QY 21 KNSKRFVTLV--GVFLMI-----FALVTSVWGAKTVEGVSSPNAINDSSEYRW-- 72
 Db 112 KTSRTVTVIYENKYYTKLVENPTNGELISAKGKDY-----SSLDLENPKMSVSKYK 166
 QY 73 ----YGEYSYVRGHPYV-----KQ-----FVVAHDLRYNLEGRSRYOYCP 109
 Db 167 TEVSSGADEYRNHAAFKMSFELKQDKKSETINPGDTFVLQDLRLNPKG----- 217
 QY 110 NLKARP-----LGSDSYKKNYKKHKGDISTFEYDA----- 141
 Db 218 -ISODIFKIIYDSANSPLAIGKYHAENHQLIYFTFDYIAGLDKRVQLSAELSLFLENKVEL 276
 QY 142 ----MSPRINGDELINOK--LRVMYNGHPQANGIMGL-----EPLNAIRYTOE 185
 Db 277 EMTSISNFKSTTIGOEITTKGVNVLGNSTESKNTINGLNSVGGSISSYNT--ETGE 334
 QY 186 AWYYSNDAISN-PDESEK-----RESENLVSTLSQLRQALKQILDPNATKME 237
 Db 335 FWMYVYVNPRTNIPYTNMLMGFGRRASNTSLENDANNSAELGEIQYEVPEBKLP 394
 QY 238 KQVBD-----FQLSIPESEKDK-YKGY----- 262
 Db 395 SSYGVDTKLLRLTDITAGLNGFOMTKRORIDFGNMIQMKAFILKYTGKTDOSGRPLVY 454
 QY 263 -QNLIS-----GG-----LVPTKPTPDPPMPNPQPTTSVILIRKVA 259
 Db 455 QSNLASFRGASEAFTPVGSGNYVFNELILSSKSGSGSKSEF--TKPSITVANLKRA 512
 QY 300 IGDYSKL-----LEGATLQITGDVNSFOARVSSNDIGE--RIELSDGTYLTLELNSP 351
 Db 513 QLRPKKMNSTONVPLPEAFELRSSNGNS-QKLEASSMTQGEVAFKDLSTGYDLYETKAP 571
 QY 352 AGYS-----IAEPIF-----KEACGVYTIIDGQ-IENPKKEIYE 387
 Db 572 KGQOQVTEKLATYVDTTKPEAEWYTWGSPHSSVKYEAENVEYIVNHKETLITFSGKIWE 631
 QY 388 PYSVEAYNDPEEFVLTTONYAKFYAKNKGSSQVYVYCPNADLKSPDSEDGKTMTPD 447
 Db 632 -----NDRPD-----QRPALIQVOLLNGQ-----KAPNQIQE-----VTKD 663
 QY 448 FTTGEVYVTHIAGRDLEKTYVVKPRDDPDTFLKHKKIVLEKGYREKGOALEYSGLTETOL 507
 Db 664 ---NDMSY-HF--KDLPRYAKNOE-----YKYSVEVAVPQYKSYLGNDIFMT 708
 QY 508 RAATQALITYFTSALDKLKDYGFGDMNDSTLAVAKILVEYKQDS--NPQTLDDL 565
 Db 709 R-EFEEVFEQNNNLEGNNAEIGOSGSKLIEDDTLTSFGKKIKWMDTAENRPOALQVO 767
 QY 566 FF-----IPNNKYOSLIGTOWHP-----DIV-----D 589
 Db 768 LYADGAVNEGQTKFISGSGNEMSEFERKNLKYNGTNDIITYSKEVYVPTGYVYTSAND 827
 QY 590 IIRMEKKEVY-----PYTNHLTKRYTGLAGDKTDFHEIE-----LKNKQELLS 638
 Db 828 II--NTRREVITQOGPRLEIEETLPLESGASG--GTYTVDSRPVDTLSLSEQOQSG 883
 QY 639 QYKTKD-TWLEK-----QCK-----ATINKHESLTLQ-----LPEGYSL 677
 Db 884 MTIEEDSATRIKSKRIDDKELAGATMELRDSGKRTISWISDQGVKDFLYMPGRYTF- 942

Wed Aug 20 11:56:14 2003

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Page 13

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Search completed: August 19, 2003, 15:23:25
Job time : 48 secs

